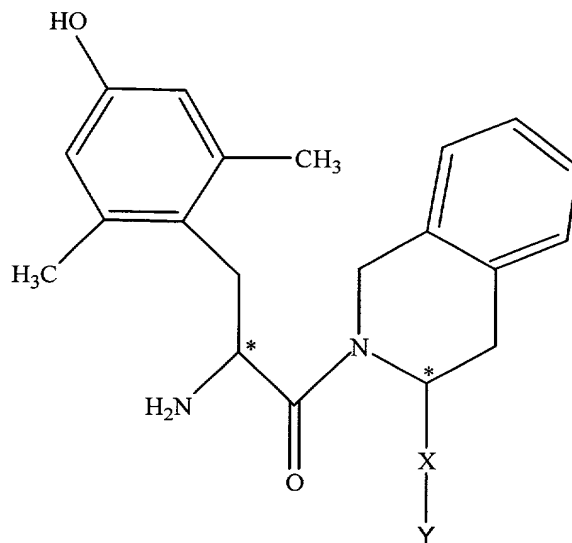


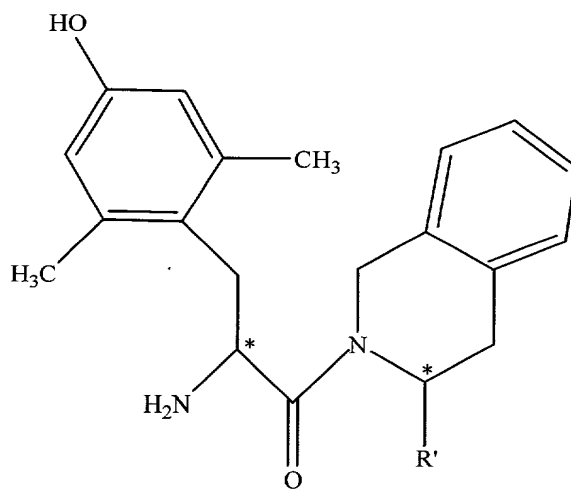
WHAT IS CLAIMED IS:

1. A compound of formula:



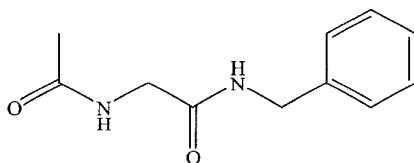
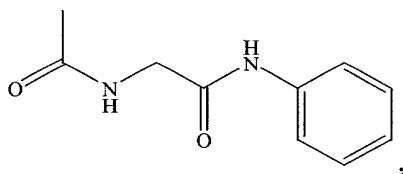
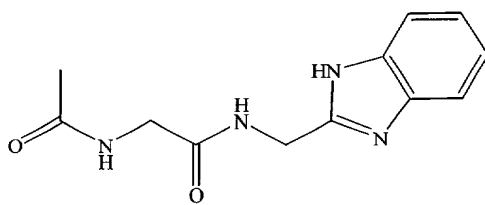
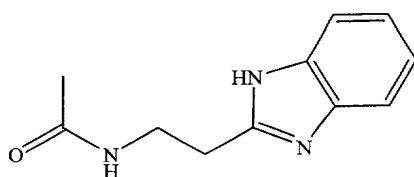
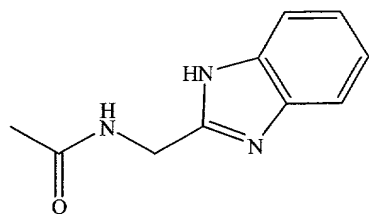
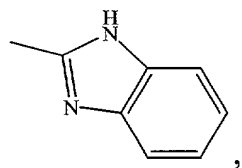
wherein X is a spacer comprising at least one amino acid residue, and Y comprises an aromatic group.

2. A compound of formula:



wherein R' is selected from the group consisting of

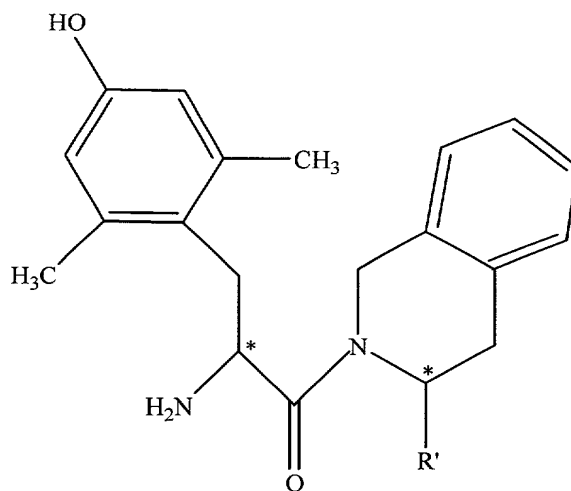
64



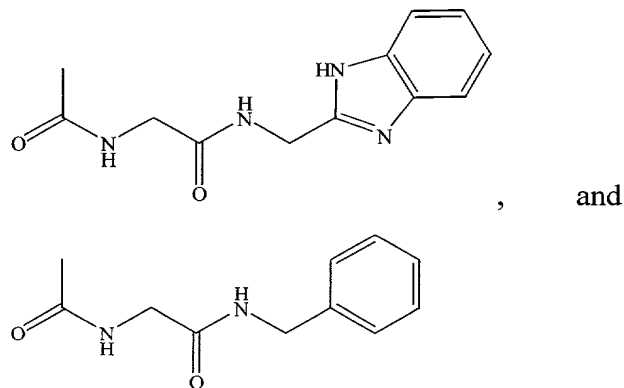
and

3. A composition comprising at least one compound of claim 1 and a carrier.
4. A composition comprising at least one compound of claim 2 and a carrier.
5. A method of treating a mammal in need of an antagonist of a δ -opioid receptor, which method comprises administering at least one compound of formula:

65



wherein R' is selected from the group consisting of:

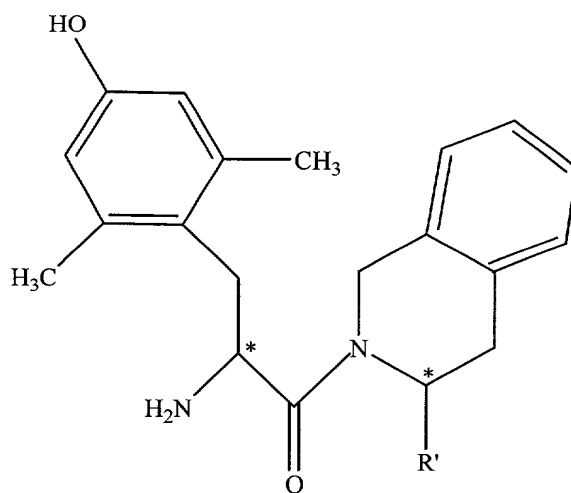


in an amount that antagonizes a δ -opioid receptor in said mammal.

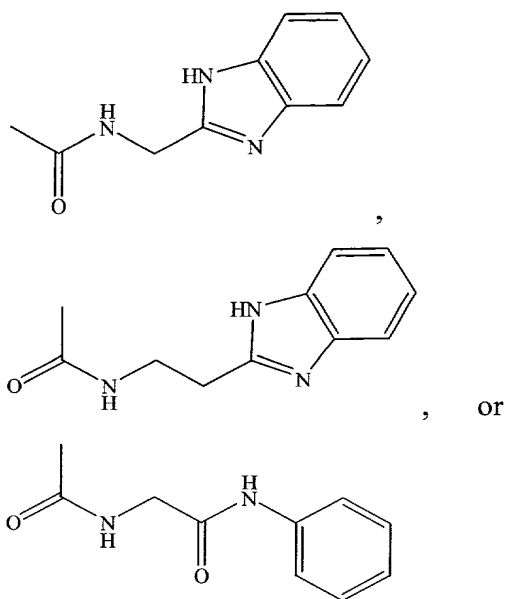
6. The method of claim 5, wherein the compound is administered in an amount that also agonizes a μ -opioid receptor in said mammal.

7. A method of treating a mammal in need of an agonist of a δ -opioid receptor, which method comprises administering at least one compound of formula:

66



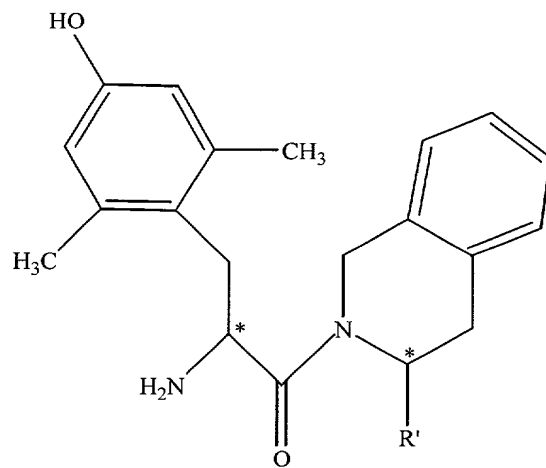
wherein R' is



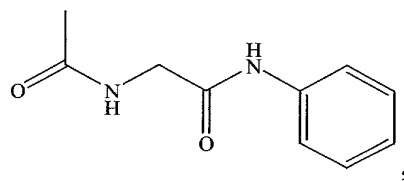
in an amount that agonizes a δ -opioid receptor in said mammal.

8. A method of treating a mammal in need of an agonist of a μ -opioid receptor, which method comprises administering at least one compound of formula:

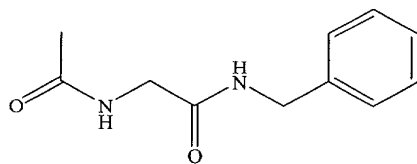
67



wherein R' is

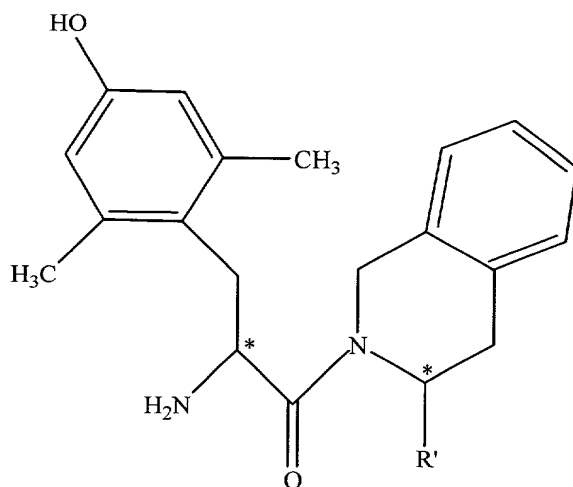


or

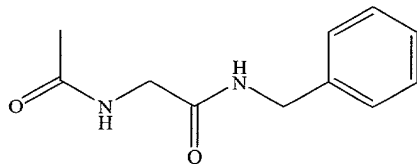


in an amount that agonizes a μ -opioid receptor in said mammal.

9. A compound of formula:



wherein R' is



10. A method of treating a mammal in need of an antagonist of a δ -opioid receptor and an agonist of a μ -opioid receptor, which method comprises administering the compound of claim 9 in an amount that antagonizes a δ -opioid receptor and agonizes a μ -opioid receptor in said mammal.